

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
May 17th. @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, Michael Harmison
Mayor, Lake Ozark, Dennis Newberry
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, David Mitchem
Alderman, Osage Beach, Kevin Rucker
Alderman, Lake Ozark, Pat Thompson
Public Works Director, Lake Ozark, Matt Michalik
Public Works Operations Manager, Osage Beach, Kevin Crooks
Member at Large, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: April 19th, 2022 2-3

4. REPORTS

Bill List	4-9
Revenue Budget Analysis	10
Expenditure Budget Analysis	11
Income & Expense Summary	12
 April 2022 Alliance Report of Operations	 13-33
 Approval of Flow Chart; April 2022	

5. OLD BUSINESS

A. Board Representative Update

6. NEW BUSINESS

- A. Discussion of after the Aeration Gear Box Replacement project bid opening on May 20th, 2022.
- B. Discussion and possible approval of Tenner Garage door for the garage door replacement.
- C. Discussion and possible approval of the UV bulbs, sleeves, and supplies bid.
- D. Discussion and possible approve of JCI rebuilding another RAS pump.
- E. Update signature cards to update and add Mayor, Osage Beach, Michael Harmison

7. ADDITIONAL DISCUSSION ITEMS

Page 34

8. ADJOURNMENT

THE NEXT MEETING WILL BE June 21st, 2022 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – April 19th, 2022**

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, April 19th, 2022 at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Dennis Newberry – Absent
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, David Mitchem – Present
Alderman Osage Beach, Kevin Rucker- Present
Alderman Lake Ozark, Pat Thompson- Absent
Public Works Director Lake Ozark, Matt Michalik – Absent
Public Works Operations Manager, Kevin Crooks – Absent
Resident Member, Mr. Gary Hamner - Absent

MINUTES:

City Administrator Lake Ozark, David Mitchem motioned to approve the meeting minutes April 19th, 2022. His motion was seconded by Public Works Operations Manager, Kevin Crooks and passed unanimously.

REPORTS:

The March revised bill list Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Alderman Lake Ozark, Pat Thompson to approve the documents and pay the bills. Her motion was seconded by Public Works Operations Manager, Kevin Crooks and was passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for March was 1.094 mgd. We had 5.2 inches of precipitation in March measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 2.7 mg/l and 2.0 mg/l respectively for March which represents a 98.7 + % or better removal.

The MLSS average for both aeration basins was 5,815 mg/l in March. The total dry weight sludge inventory for March totaled 405,135 pounds. We received 23 loads of septage or 48,000 gallons for January.

APPROVAL OF FLOW CHART

Motion was made by City Administrator Osage Beach, Jeana Woods to approve the Flow Charts for April 2022. His motion was seconded by Alderman Lake Ozark, Pat Thompson. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Board Representative Update: Public Works Operations Manager, Kevin Crooks noted that the plant is running well and that there are no issues.

NEW BUSINESS:

Review and discussion regarding the Aeration Gear Box replace project bid. Motion made by City Administrator Osage Beach, Jeana Woods to reject the current and only bid from Missouri Machinery & Engineering and put out for a re-bid. Her motion was seconded by City Administrator Lake Ozark, David Mitchem. Unanimous approval, motion passed.

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:25 pm.

Approved on:

Mayor, Michael Harmison

Clerk, Robin Craig

JOINT SEWER BOARD

BILL LIST

MAY 17, 2022

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	868.00
OPERATING FUND BILLS TO BE PAID:	\$	43,211.90
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-
TOTAL	\$	44,079.90

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4140	572	The Cincinnati Insurance Co.	Board Liability 4/10/22-4/10/23	\$ 868.00
				\$ -
TOTAL				\$ 868.00

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	573	Equipment Replacement Fund	Payment into ER Fund	\$ 4,584.00
4020	574	Accurate Superior Scale	Test Lab Balance	\$ 259.20
4020	575	Cole-Parmer	Lab Thermometer Certify	\$ 237.47
4020	576	Jani King	May	\$ 197.15
4020	577	Grainger	Relay's for Clarifiers 1&2	\$ 292.20
4020	578	Grainger	Bases for relay's for Clarifiers 1&2	\$ 45.64
4020	579	M/C QuickBooks	Accounting Software	\$ 25.00
4020	580	Martin Energy Group Services, LLC	Bi-Annual Main. on Generator	\$ 370.00
4020	581	Menards	Hardware for scum buckets	\$ 44.55
4020	582	Menards	Valve for RAS basement	\$ 6.19
4020	583	Menards	Drill Bits	\$ 30.97
4020	584	Menards	Simple Green, WD-40	\$ 34.56
4150	585	Menards	Sea Foam, Diesel add.	\$ 38.26
4020	586	UV Doctor Lamps LLC	Disposal of used UV bulbs	\$ 300.00
4150	587	O'Reilly	Fuel Additive for Ford	\$ 17.99
4150	588	Clark Tire Co.	Repair Sludge Trk Tire	\$ 166.95
4150	589	Purcell Tire and Service	Sludge Trk Tires	\$ 3,001.50
4170	590	Alliance Water Resources, Inc.	May	\$ 27,590.00
4175	591	Ameren MO	11673321	\$ 5,712.37
4175	592	Ameren MO	98041275	\$ 94.27
4176	593	AT&T	May	\$ 102.99
4176	594	Republic	May	\$ 60.64
TOTAL				\$ 43,211.90

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4000				\$ -
				\$ -
TOTAL				\$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000				\$ -
				\$ -
TOTAL				\$ -



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ACCT#: 1603182

CUSTOMER: JOINT BOARD OF THE LAKE
1603182 OZARK-OSAGE
3 ANDERSON ROAD
LAKE OZARK, MO

BUSINESS: 573/365-5378

SALESMAN: 01652

INVOICE DATE: 04/12/22

PICKUP AT STORE: N

PO NUMBER:

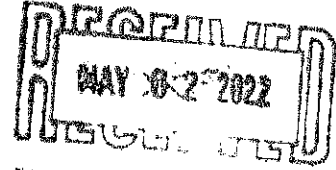
TERMS: NET 10TH

INVOICE #: 1625779

PAGE: 1

TIME STARTED: 11:21:13

TIME CLOSED: 22:03:04



PRODUCT	MECHANIC	QUANTITY	PRICE	EXTENSION
48X31.00-20 MAX M3935 12 TL MV346028		3	1100.00	3300.00
ADJ CREDIT FOR FLOATATION TIRES D5 ADJ		-3	100.00	-300.00
STATE RECYCLE FEE RECYCLE			1.50	1.50
			MERCHANDISE:	3001.50
			INVOICE TOTAL:	3001.50
*****THIS IS A REPRINTED INVOICE*****				
GOVERNMENT				3001.50

NEW
SLUDGE TRK TIRES

DISCLOSED
APPROVED@JAN 22 MEETING JSB

GL Acct#: 4150

Signature: [Signature]

Date: 5/2/22

Customer Signature: _____

Printed Name: _____

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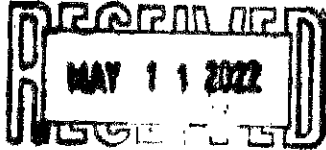
FOCUSED ENERGY For life

Account Number 4580005832
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD.
 LAKE OZARK, MO 65049

Current Detail for Statement 05/10/2022

Total Electric Charges \$5,712.37

Total Amount Due \$5,712.37



AMOUNT DUE \$5,712.37

Due Date 06/01/2022

Amount After Due Date \$5,769.49

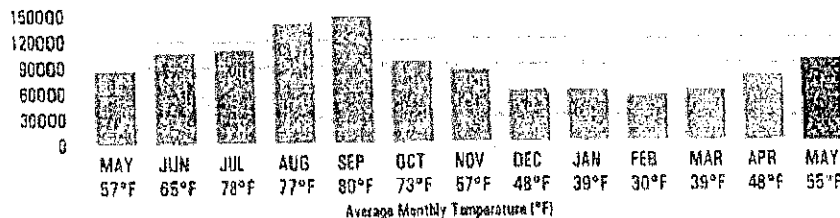
Previous Statement \$4,785.89

Total Payments \$4,785.89

Payment Received. Thank You.

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

Your electric energy usage this year was about the same as last year.

2021	341,280 kWh
2022	344,160 kWh

Usage from Jan-May for 2021 & 2022

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.

GL Acct#: 4175

Signature: *Larry Huhler*

Date: 5/11/22



» See next page for service details.

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Page 1 of 4

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Amount Due	Due Date
\$5,712.37	June 01, 2022
Delinquent Amount After Due Date	Account Number
\$5,769.49	4580005832
Amount Enclosed \$	

>001366 2065411 0001 092139 102

ALLIANCE WATER RESOURCES INC
 PO BOX 1985
 LAKE OZARK, MO 65049-1985

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

80600000 0045800058302 000005712370 000005712370

13079 01366 2065411 002734 005447 000160032



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Electric Service Details Service from 04/06/2022 - 05/09/2022 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	04/06 - 05/08	32	Total kWh	Actual	72625.0000	72029.0000	596.0000	160.0000	95360.0000
11673321	04/08 - 05/09	32	Peak kW	Actual	1.0800	0.0000	1.0800	160.0000	172.8000

Usage Summary

Total kWh	95360.0000	Non-Summer kWh	95360.0000
Peak kW	172.8000	Billing Demand	172.8000
Total Billing Demand	172.8000	October Winter Base kW	162.4000
Winter Base Demand	162.4000	Base kWh Ratio	0.9398
Base kWh (HUD)	89619.0000	Seasonal kWh (HUD)	5741.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	5,741.00	kWh	@	\$ 0.03870000	\$222.18
Summer Demand Charge	172.80	kW	@	\$ 0.00000000	\$0.00
Winter Demand Charge	172.80	kW	@	\$ 2.18000000	\$376.70
Energy Charge/Hours Used	0.00	kWh	@	\$ 0.10540000	\$0.00
Base Energy Charge / Hours Used	24,360.00	kWh	@	\$ 0.06620000	\$1,612.63
Base Energy Charge / Hours Used	32,480.00	kWh	@	\$ 0.04920000	\$1,598.02
Base Energy Charge / Hours Used	32,778.00	kWh	@	\$ 0.03870000	\$1,268.85
Customer Charge					\$104.86
Fuel Adjustment Charge	95,360.00	kWh	@	\$ 0.00279000	\$268.05
Energy Efficiency Investment Charge	95,360.00	kWh	@	\$ 0.00326200	\$311.06
Renewable Energy Adjustment	95,360.00	kWh	@	\$ -0.00050000	\$ -47.68
Total Service Amount					\$5,712.37
Total Electric Charges					\$5,712.37

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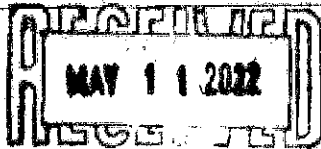
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Account Number 5580005920
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65049

Current Detail for Statement 05/10/2022

Total Electric Charges \$94.27

Total Amount Due \$94.27



AMOUNT DUE \$94.27

Due Date 06/01/2022

Amount After Due Date \$95.21

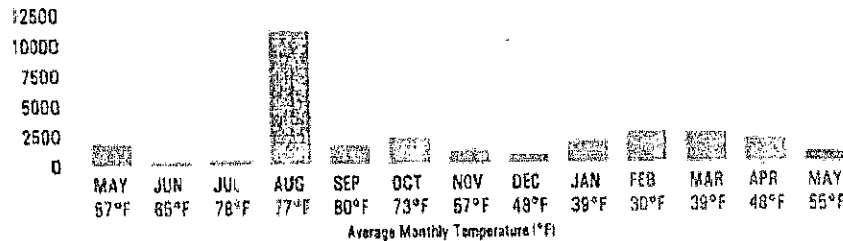
Previous Statement \$192.95

Total Payments \$192.95

Payment Received. Thank You.

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **20.1% MORE** than last year.

2021 7,950 kWh

2022 9,550 kWh

Usage from Jan May for 2021 & 2022

Keeping You Informed.

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GL Acct#: 4675

Signature: *[Signature]*

Date: 5/11/22

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ALLIANCE WATER RESOURCES INC
 PO BOX 1985
 LAKE OZARK, MO 65049-1985

Amount Due	Due Date
\$94.27	June 01, 2022
Delinquent Amount After Due Date	Account Number
\$95.21	5580005920

Amount Enclosed \$

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Electric Service Details Service from 04/06/2022 - 05/08/2022 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	04/06 - 05/08	32	Total kWh	Actual	24575.0000	24495.0000	80.0000	10.0000	800.0000
98041275	04/06 - 05/08	32	Peak kW	Actual	5.1950	0.0000	5.1950	10.0000	51.9500

Usage Summary

Total kWh	800.0000	Non-Summer kWh	800.0000
Winter Base kWh	1830.0000	Current Base kWh	800.0000
Winter Cur Base kWh	800.0000	Seasonal kWh	0.0000

Rate 2M Sm Gen Svc - 3 Ph w/Dmd

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	800.00	kWh	@ \$ 0.08480000	\$87.84
Seasonal Energy Charge	0.00	kWh	@ \$ 0.04880000	\$0.00
Customer Charge				\$21.86
Fuel Adjustment Charge	800.00	kWh	@ \$ 0.00279000	\$2.23
Energy Efficiency Investment Charge	800.00	kWh	@ \$ 0.00343000	\$2.74
Renewable Energy Adjustment	800.00	kWh	@ \$ 0.00050000	\$0.40
Total Service Amount				\$94.27
Total Electric Charges				\$94.27

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
April 22, 2022	\$192.95

Questions? Contact Ameren Missouri at 1.877.426.3736 or visit AmerenMissouri.com.

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MONTH-TO-DATE AND YEAR-TO-DATE

REVENUE/BUDGET ANALYSIS

4/30/2022

Account Number	Account Name	2020 Actual	2021 Actual	2022 Budget	2022 Actual as of 4/30/2022	2022 April Revenue	Percent YTD
3020	Osage Beach	475,836.10	465,202.63	470,050.00	152,334.66	38,068.19	32%
3010	Lake Ozark	74,163.90	84,797.35	82,950.00	31,498.66	8,015.14	38%
3030	Misc.	4,500.00	22,000.00	0.00	0.00	0.00	0%
3100	Interest	4,019.49	2,700.22	2,500.00	607.88	239.31	24%
3060	Waste Haulers' Fee	39,320.00	60,520.00	56,000.00	11,740.00	4,980.00	21%
Total Operating Fund		597,839.49	635,220.20	611,500.00	196,181.20	51,302.64	32%
E/R Fund Income		8,955.85	5,508.47	5,000.00	863.06	235.57	17%
TOTAL INCOME		606,795.34	640,728.67	616,500.00	197,044.26	51,538.21	32%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS**

4/30/2022

Account Number	Account Name	2020 Actual	2021 Actual	2022 Budget	2022 Actual as of 4/30/2022	2022 April Expenses	Percent YTD
4000	Equipment Replace Fund	71,604.00	143,608.00	55,000.00	18,338.00	4,584.00	33%
4020	*Maintenance & Repair	28,299.39	104,853.81	142,000.00	13,569.13	1,710.28	10%
4140	Insurance	19,865.00	21,493.00	22,000.00	21,220.00	21,220.00	96%
4150	Vehicle Repair/Main	12,479.74	11,099.99	8,000.00	531.67	315.69	7%
4170	Contract Management	305,560.00	308,640.00	327,158.00	110,360.00	27,590.00	34%
4175	Electric	75,077.36	82,227.41	92,000.00	16,364.84	4,978.84	18%
4176	Utilities Misc.	2,485.59	3,528.17	3,750.00	1,975.48	205.29	53%
4190	Bank Charges	32.60	0.00	0.00	0.00	0.00	0%
4200	Audit	2,648.50	2,600.00	2,700.00	0.00	0.00	0%
4240	Capital Purchases	0.00	399.99	500.00	0.00	0.00	0%
	Totals	516,072.18	678,450.37	553,108.00	192,357.02	60,604.10	28%
	**E/R Expenses	85,258.27	202,181.70	59,500.00	272.30	272.30	0%
	TOTAL EXPENSES	601,330.45	880,632.07	712,608.00	192,629.32	60,876.40	26%

4020 DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500	Tier 1
Regular Maintenance	18,000	Tier 1
UV Bulbs, Quartz Sleeves, Misc	10,000	Tier 1
Concrete Steps to outfall	9,000	Tier 1
Rock for road	2,000	Tier 1
Parking Lot seamseal & sealcoat	2,500	Tier 1
Take #2 Aeration Basin, grit ren	100,000	Tier 2

DETAIL: Equipment & Replacement

Replace garage door in headwork	3,500	Tier 1
Replace wooden doors w/fiberglass	2,000	Tier 1
Replace lab refrigerator/freezer	3,500	Tier 1
Replacement 6" valve for sludge	500	Tier 1
Replace Light Fixtures in headwork	5,000	Tier 1
Replace aerator gear box - new	45,000	Tier 1

59,500.00

142,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
4/30/2022

Beginning Balance	322,215.22
Income - Osage Beach	38,068.19
Income - Lake Ozark	8,015.14
Income - Other	-
Income - Waste Haulers' Fees	4,980.00
Interest - Checking	1.60
Income - CD Interest	237.71
Transfers From E/R Fund	-
Transfers To E/R Fund	(4,584.00)
Expenses	(56,020.10)
Ending Fund Balance	312,913.76
Central Bank - NOW Acct.	92,035.04
	-
CD First Bank of the Lake, 8/20/22 #8432	107,225.77
CD First Bank of the Lake, 7/22/22 #8433	113,652.95
	-
Outstanding Checks:	-
	312,913.76

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
4/30/2022

Beginning Balance	493,816.72
Interest - Checking	59.74
Income - CD Interest	175.83
Transfers From Operating Fund	4,584.00
Income - Miscellaneous	-
Expenses	(272.30)
Ending Fund Balance	498,363.99
First Bank of the Lake - Money Mkt.	118,482.21
CD First Bank of the Lake, 10/31/22 #8430	109,881.78
CD First Bank of the Lake, 11/07/23 #8434	270,000.00
	-
	-
Outstanding Checks:	-
	498,363.99

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MISSION**

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**Alliance Water
Resources,
Inc.**

206 S. Keene
St.
Columbia, MO
65201

(573)874-8080



REPORT OF OPERATIONS

**LAKE OZARK/OSAGE BEACH
Joint Wastewater Treatment Plant No. 1**

Month of April 2022

Submitted by Alliance Water Resources, Inc. for the

May 2022

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No.MO-0103241. No leaks, no spills, and no unauthorized releases to waters of the state. No work-related lost time accidents have occurred during the month.

Detailed information relating to plant performance and operations is presented as follows.

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.6	2.5	N/A	10.0		0.02	< 4.8
Peak Day	3.5	3.2	7.9	< 20		0.03	< 4.8
Percent Removal	99.0	99.3	N/A	N/A		N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30	30	6-9	126		3.1	10
Weekly Average	45	45		630			
Daily Max				N/A		12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.156 MGD or 39% of Permitted flow with Lake Ozark contributing 18% of the total flow and Osage Beach contributing 82%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 75232 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 47 tanker loads of bio-solids during the month equivalent to a total of 169,200 gallons and 62,120 pounds dry weight solids.

62,120 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 540,000 gallons with a level of 7.0 feet in Tank 1 and 5.0 feet in Tank 2.

WASTEHAULERS

The plant received 52 loads of septage during the month totaling 124,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- Haynes Equipment's technician came in on the 14th & 15th of April to work on the ducking skimmer arms on Clarifiers 1 & 2 and to check the calibration on the flow meters. We had to order some timer relays for the clarifiers and will come back to finish when everything comes in. He found both Lake Ozark, Osage Beach's, and the Effluent flow meters to be well within the calibration tolerance, but the RAS meter is going to need to be sent into the factory to be repaired. He is recommending that we try and budget for all new meters this next year due to the non-working keyboards on a couple of them.

SAFETY

- We conducted our monthly Safety Meeting on Distracted Driving Prevention, Vehicle Backing and Driver Safety: Hazardous Driving Conditions on the 20th of April.

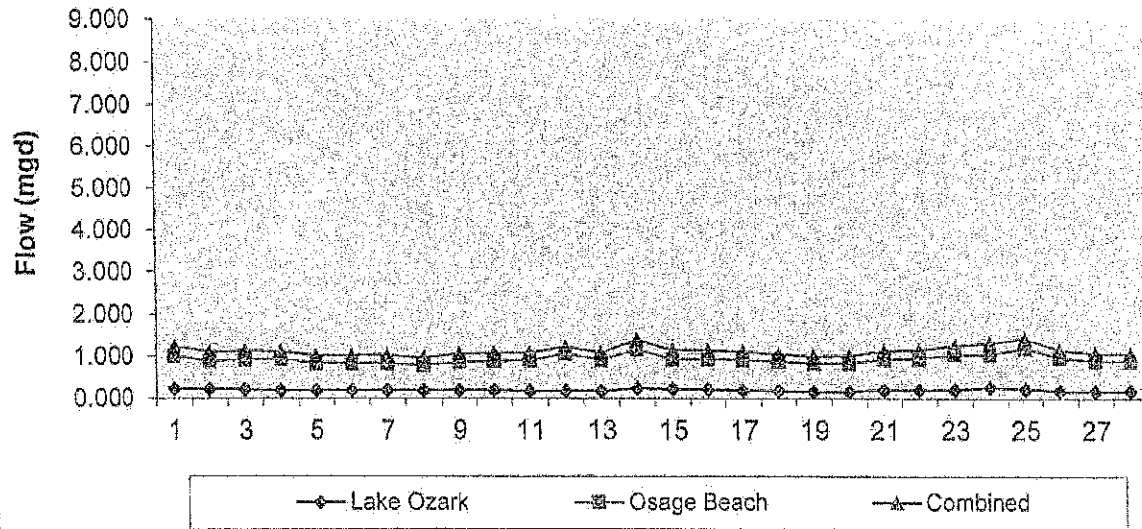
REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 5th of May.

MISCELLANEOUS AND RECOMMENDATIONS

- We put the invitation to re-bid the Aeration Gear Box Replacement Project in the Lake Sun legal section on the 29th of April and sent out 13 bid packets to interested vendors. We will have our bid opening on the 20th of May and would like to ask if the Board will allow the JSB representatives to look over and approve the best/lowest bid to speed the process up a little?
- We contacted 4 garage door vendors to bid on replacing the garage door in the head works building and only received one bid, Renner Garage Door for \$2,790.00.
- We contacted 4 vendors to bid on some UV Bulbs, quartz sleeves and supplies. We received quotes/bids from all, see attached bid sheet.
- We are going to need to have one more of the RAS pumps rebuilt and JCI has extended the same cost/bid price of \$2,300.00. We bid this out this past year and all other bidders were well above that.

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

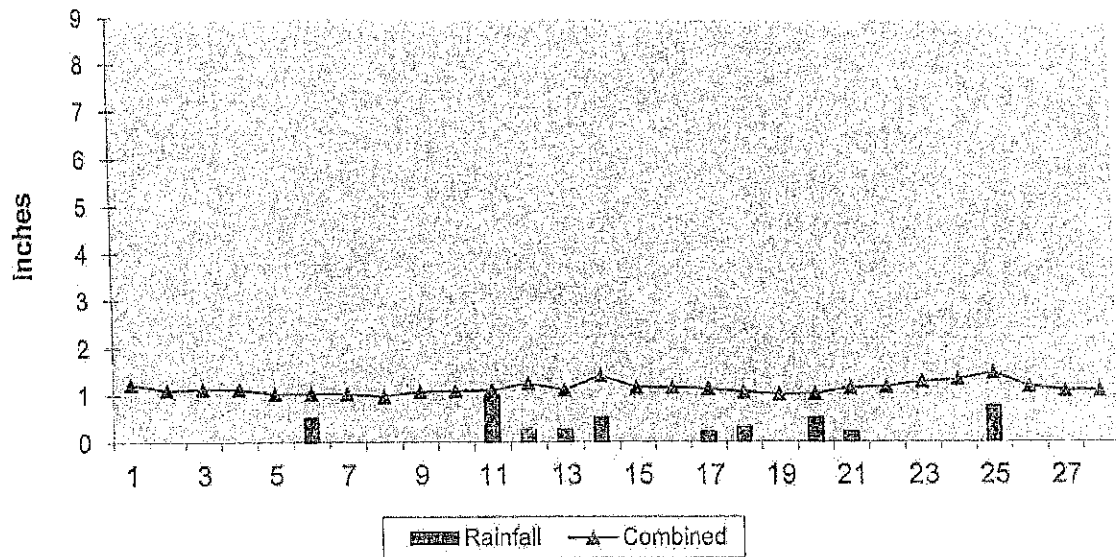


TABLE B
JOINT SEWER BOARD
Monthly Flows

2020	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	7.7	36,806,000	86%	5,780,000	14%	42,586,000	100%
February	3.6	31,279,000	86%	4,986,000	14%	36,265,000	100%
March	6.1	37,286,000	86%	5,888,000	14%	43,174,000	100%
April	5.2	31,967,000	88%	4,324,000	12%	36,291,000	100%
May	5.3	43,538,000	87%	6,443,000	13%	49,981,000	100%
June	4.8	50,936,000	87%	7,780,000	13%	58,716,000	100%
July	6.9	56,437,000	87%	8,616,000	13%	65,053,000	100%
August	2.3	52,449,000	87%	7,883,000	13%	60,332,000	100%
September	8.4	42,235,000	85%	7,636,000	15%	49,871,000	100%
October	5.4	33,173,000	84%	6,448,000	16%	39,621,000	100%
November	4.3	27,630,000	84%	5,102,000	16%	32,732,000	100%
December	1.3	22,749,000	85%	3,949,000	15%	26,698,000	100%

61.3	466,485,000	86%	74,835,000	14%	541,320,000	100%
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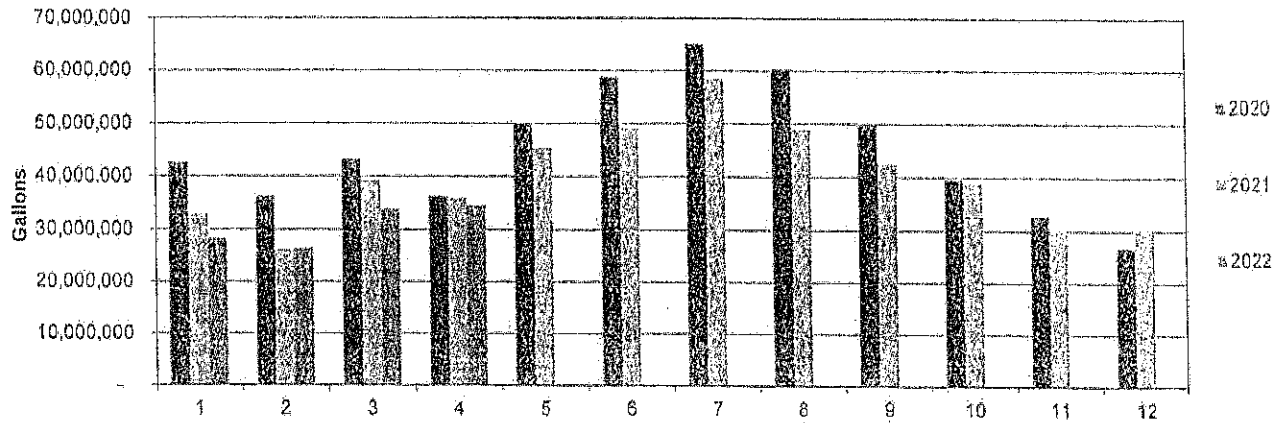
2021	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%
February	3.0	22,136,000	85%	4,048,000	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0	41,695,000	85%	7,390,000	15%	49,085,000	100%
July	6.9	49,378,000	85%	9,000,000	15%	58,378,000	100%
August	1.8	41,691,000	85%	7,211,000	15%	48,902,000	100%
September	3.1	36,185,000	85%	6,306,000	15%	42,491,000	100%
October	6.0	32,925,000	85%	5,987,000	15%	38,912,000	100%
November	0.8	25,192,000	83%	5,025,000	17%	30,217,000	100%
December	2.3	25,041,000	82%	5,317,000	18%	30,358,000	100%

52.2	403,341,000	84%	74,860,000	16%	478,201,000	100%
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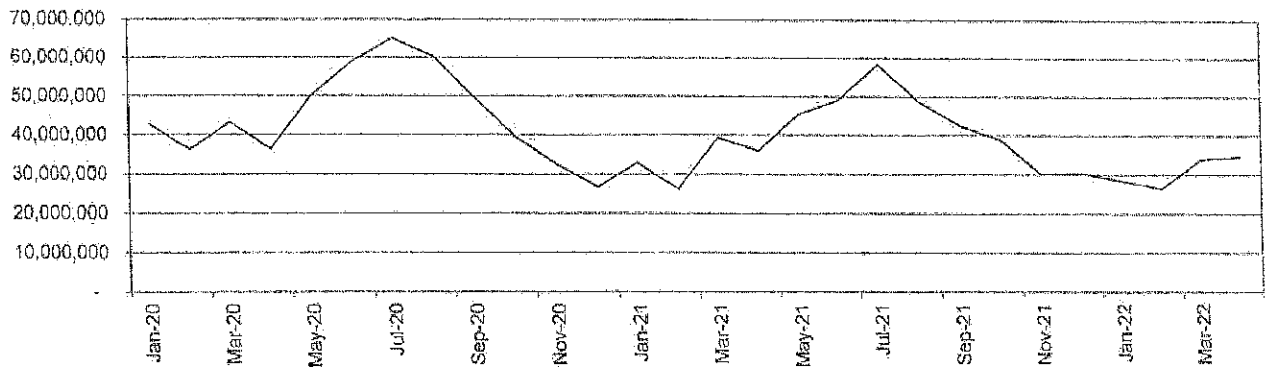
2022	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	1.7	23,599,000	83%	4,824,000	17%	28,423,000	100%
February	3.8	21,853,000	83%	4,610,000	17%	26,463,000	100%
March	5.2	28,266,000	83%	5,657,000	17%	33,923,000	100%
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	100%
May							
June							
July							
August							
September							
October							
November							
December							

16.9	102,298,000	83%	21,179,000	17%	123,477,000	100%
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Monthly Influent Flow
Figure 3A

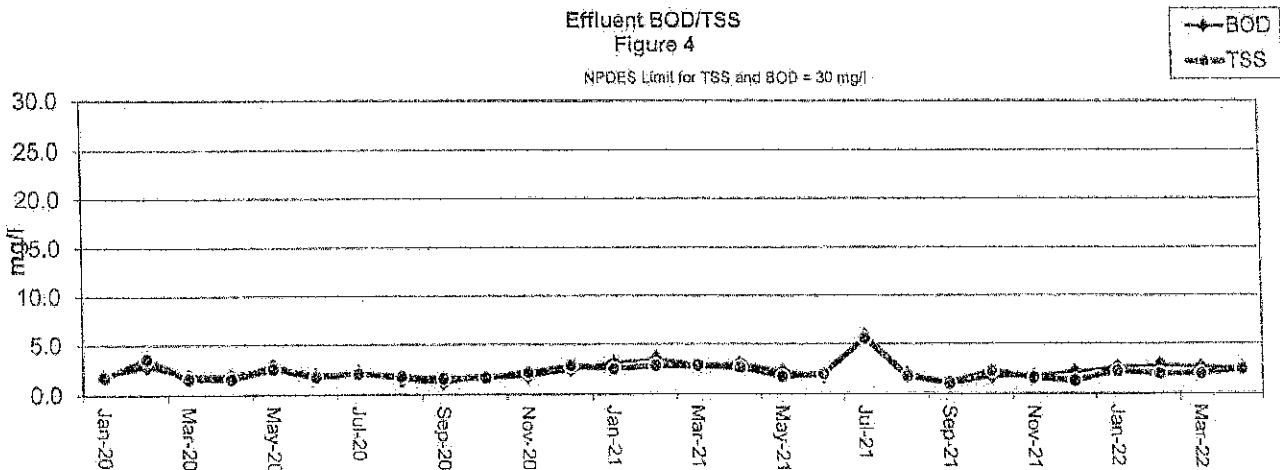


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

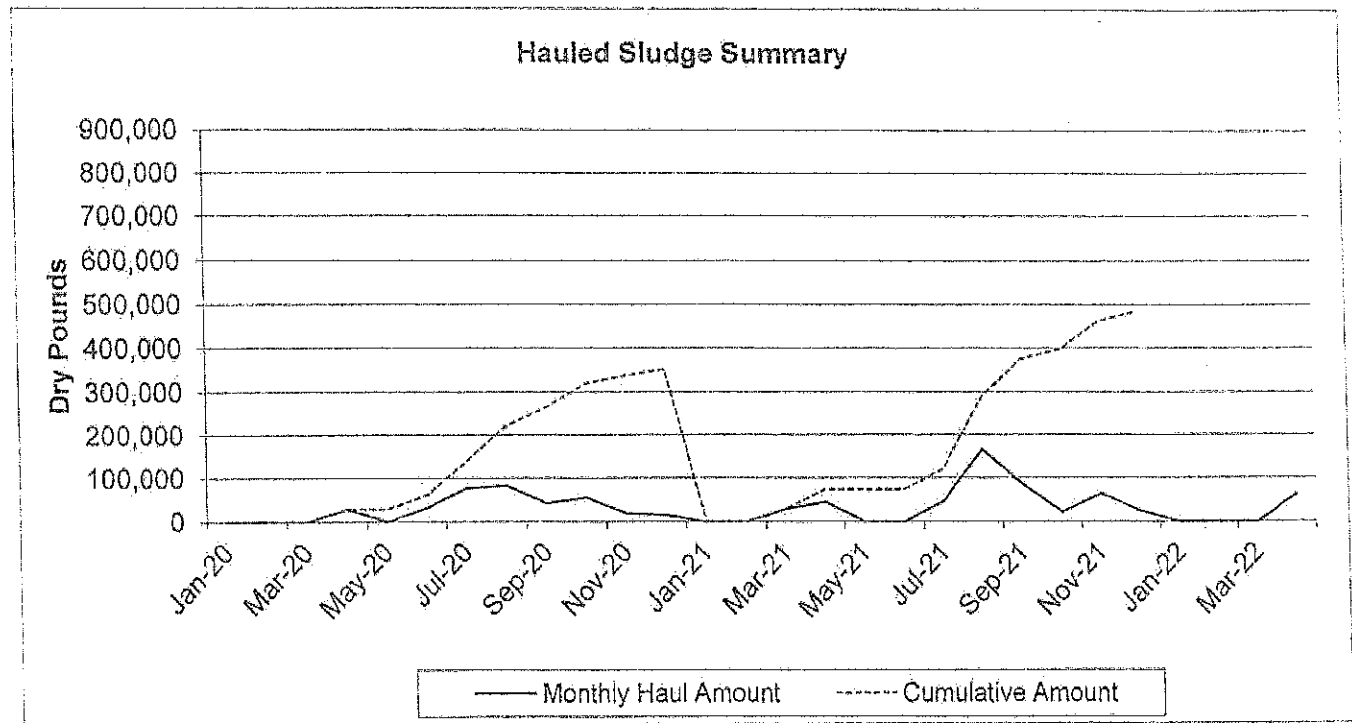
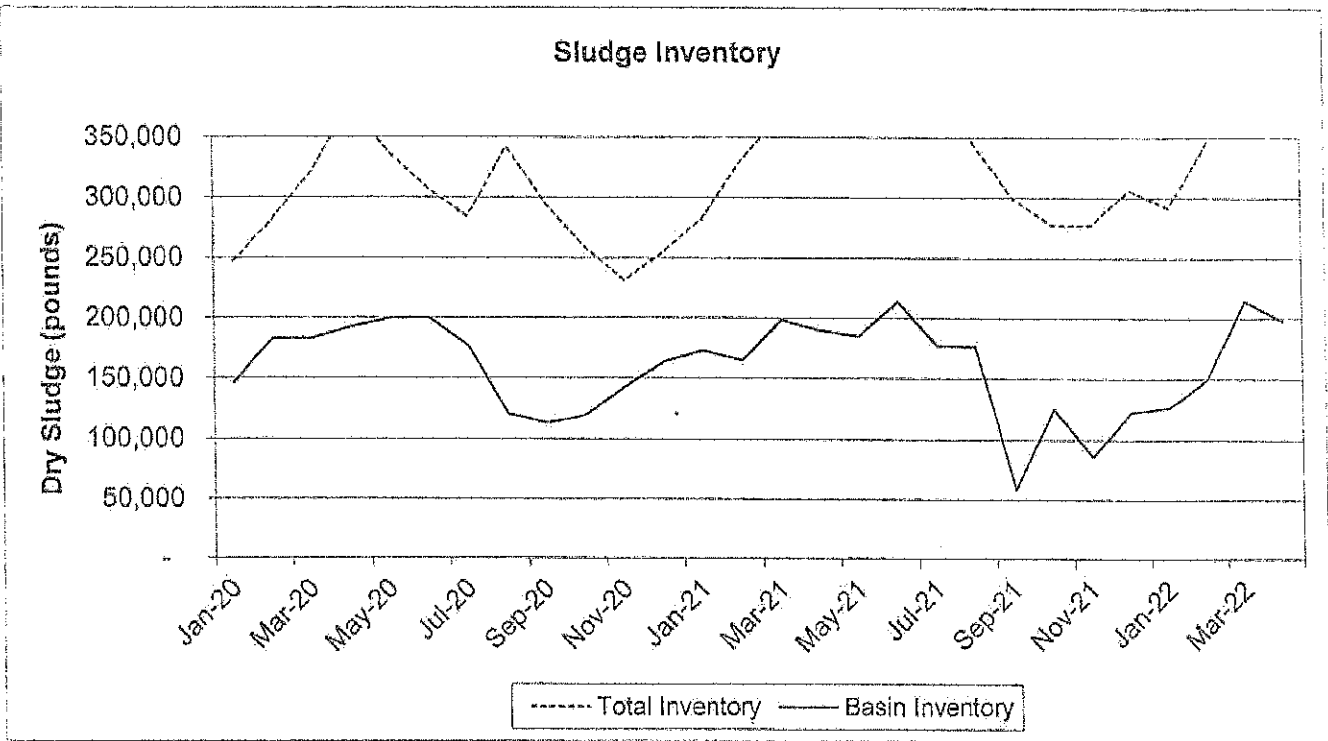


	Hauled Sludge				
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry
Jan-20	0	-	0	3.9%	-
Feb-20	0	-	0	3.9%	-
Mar-20	0	-	0	3.9%	-
Apr-20	25	92,500	29,315	3.9%	29,315
May-20	0	-	0	3.8%	29,315
Jun-20	25	92,500	31,680	4.1%	60,995
Jul-20	69	255,300	77,268	3.6%	138,263
Aug-20	76	281,200	83,288	3.6%	221,529
Sep-20	39	140,600	41,627	3.5%	263,156
Oct-20	45	166,500	55,298	4.0%	318,454
Nov-20	18	66,600	19,255	3.5%	337,709
Dec-20	11	40,700	14,843	4.4%	352,552
Jan-21	0	-	0	4.4%	-
Feb-21	0	-	0	4.4%	-
Mar-21	23	85,100	28,883	4.1%	28,883
Apr-21	39	144,300	45,289	3.8%	74,152
May-21	0	-	0	3.8%	74,152
Jun-21	0	-	0	3.8%	74,152
Jul-21	40	144,000	47,378	3.9%	121,530
Aug-21	153	550,800	166,363	3.6%	287,893
Sep-21	92	331,200	87,226	3.2%	375,119
Oct-21	17	61,200	22,698	4.4%	397,817
Nov-21	46	165,600	63,621	4.6%	461,438
Dec-21	16	57,600	24,139	5.0%	485,577
Jan-22	0	-	0	4.5%	-
Feb-22	0	-	0	4.0%	-
Mar-22	0	-	0	4.4%	-
Apr-22	47	169,200	62,120	4.4%	62,120

Basin Depths					
Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	
8.0	4.0	0.0	450,000	146,367	
6.5	6.0	0.0	562,500	182,959	
5.5	7.0	0.0	562,500	182,959	
6.0	7.5	0.0	607,500	192,528	
6.0	8.0	0.0	630,000	199,660	
6.0	7.0	0.0	585,000	200,228	
6.0	7.0	0.0	585,000	177,054	
6.0	4.0	0.0	405,000	119,953	
4.0	4.5	0.0	362,500	113,246	
5.0	3.0	0.0	360,000	118,563	
5.0	6.0	0.0	495,000	143,111	
4.5	5.5	0.0	450,000	164,112	
7.0	3.5	0.0	472,500	173,389	
5.0	5.0	0.0	450,000	165,132	
6.0	7.0	0.0	585,000	198,549	
6.0	7.5	0.0	607,500	190,582	
6.0	7.0	0.0	585,000	195,396	
7.0	8.0	0.0	675,000	213,921	
5.0	7.0	0.0	540,000	177,668	
7.0	6.0	0.0	585,000	176,693	
2.0	3.0	0.0	225,000	59,257	
3.5	4.0	0.0	337,500	125,173	
3.0	2.9	0.0	225,000	66,442	
4.0	2.5	0.0	292,500	122,581	
4.5	3.0	0.0	337,500	126,964	
7.0	3.0	0.0	450,000	150,120	
6.0	7.0	0.0	585,000	214,672	
7.0	5.0	0.0	540,000	198,255	

Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		Mt. SS		Total Dry
Clarifier #1	Clarifier #2	Clarifier #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	
1.0	1.5	0.0	4,260	4,680	3,644,405	125,915	0.00448	282,382	
3.5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330,676	
2.0	5.0	1.0	5,760	5,940	3,767,762	183,825	0.00585	366,784	
1.0	1.0	1.0	5,740	5,290	3,678,952	169,214	0.00552	361,742	
1.0	7.0	1.0	6,010	6,110	3,785,524	191,322	0.00505	390,981	
6.0	7.0	0.5	7,050	7,120	3,852,620	227,847	0.00709	427,875	
7.0	7.0	1.0	6,880	7,330	3,892,096	231,603	0.00714	408,656	
6.0	6.0	1.0	6,530	7,400	3,856,572	224,021	0.00697	343,974	
1.0	1.0	0.5	6,000	6,200	3,657,238	186,658	0.0061	299,304	
1.0	1.0	1.0	4,960	5,070	3,678,952	158,015	0.00515	277,578	
1.0	0.0	0.5	4,780	4,080	3,639,476	134,465	0.00443	277,576	
1.0	0.0	0.5	5,030	4,360	3,639,476	142,508	0.0047	306,620	
6.0	0.0	1.0	3,810	3,780	3,760,000	118,689	0.0038	292,077	
5.0	8.0	0.0	5,490	5,750	3,830,906	179,558	0.00562	344,690	
2.0	5.0	0.5	6,830	6,330	3,746,048	205,573	0.00566	404,122	
12.0	5.0	1.0	6,890	5,350	3,945,352	201,375	0.00612	391,857	
13.0	14.0	1.0	6,200	6,330	4,123,002	215,427	0.00527	400,825	
6.0	7.5	2.0	7,260	8,060	3,928,643	234,903	0.00717	448,824	
7.0	12.0	3.0	9,190	8,110	4,067,762	279,340	0.00823	457,007	
1.0	1.0	0.5	6,160	5,840	3,657,238	183,008	0.0060	359,701	
1.0	1.0	0.5	5,320	6,180	3,657,238	175,383	0.0058	234,640	
1.0	0.5	0.5	4,430	4,140	3,648,357	130,381	0.0043	255,554	
0.5	1.0	0.0	5,130	4,980	3,626,643	152,138	0.0050	238,580	
1.0	1.0	0.0	4,540	5,630	3,635,524	154,179	0.0051	276,759	
1.0	3.5	0.0	5,060	5,180	3,679,929	157,136	0.0051	283,890	
4.0	1.5	0.0	6,280	5,030	3,697,691	174,393	0.0057	324,513	
9.0	10.0	0.0	5,870	5,760	3,937,478	190,464	0.0058	405,135	
10.0	10.0	1.0	7,100	5,600	3,998,668	211,765	0.0064	410,021	

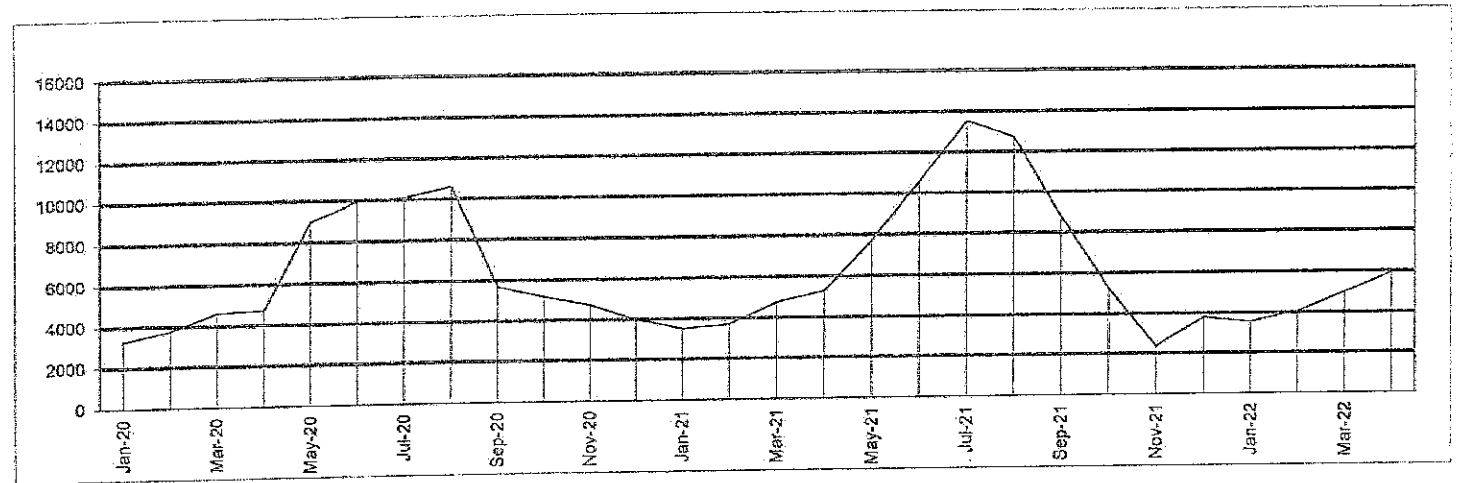
Accepted Septage	
Loads	Gallons
16	34,100
23	57,000
25	64,500
39	107,000
35	83,000
6	18,000
88	208,000
67	158,000
45	104,500
16	32,000
16	36,000
33	69,000
83	205,500
28	69,600
32	70,000
22	52,000
48	128,500
63	151,500
117	289,000
66	163,000
62	153,500
34	80,000
37	83,000
27	62,000
13	27,000
32	68,000
23	48,000
23	48,000



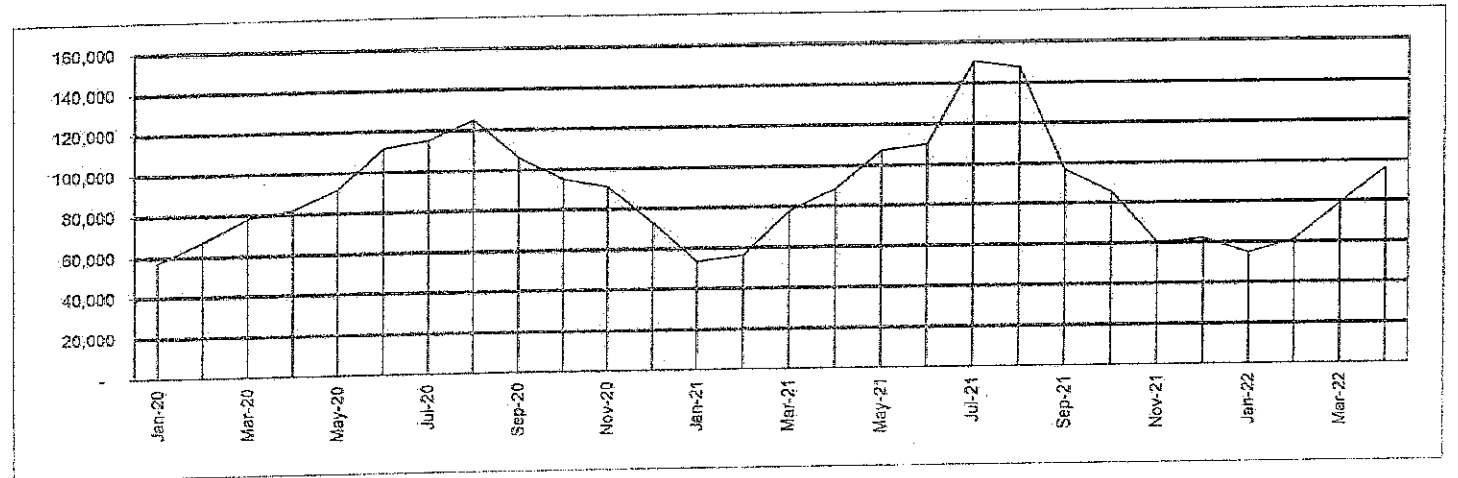
Electric Cost Kilowatts Used

Jan-20	3259	57,250
Feb-20	3760	66,830
Mar-20	4637	78,070
Apr-20	4741	81,780
May-20	8962	91,550
Jun-20	9959	111,680
Jul-20	10100	115,300
Aug-20	10619	124,800
Sep-20	5669	106,220
Oct-20	5155	94,870
Nov-20	4734	90,890
Dec-20	4009	73,020
Jan-21	3524	53,730
Feb-21	3696	56,370
Mar-21	4776	77,720
Apr-21	5281	88,390
May-21	7727	107,320
Jun-21	10610	110,130
Jul-21	13533	150,740
Aug-21	12737	147,810
Sep-21	8751	96,600
Oct-21	5233	85,530
Nov-21	2348	60,370
Dec-21	3776	62,100
Jan-22	3547	55,070
Feb-22	4063	61,330
Mar-22	4979	79,050
Apr-22	5907	96,160

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
 Discharge Monitoring Report For Municipal Wastewater Treatment Plants

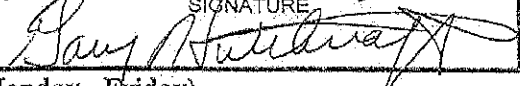
NAME OF FACILITY							LOCATION ADDRESS & CITY							COUNTY/REGION			
Lake of the Ozarks Regional WWTP #1							#3 Anderson Road							Miller/SWRO			
MONTH/YEAR		PERMIT NUMBER					OUTFALL NUMBER		TYPE TREATMENT FACILITY								
Apr-22		MO-0103241					#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied								
INFLUENT						EFFLUENT										% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L		
1	7.3	218	356		11.5	1.907	7.9	3.5	3.2		10.9		11.1	98.4	99.1		
2	7.2				13.1	1.763	7.5				10.7		11.9				
3	7.1				12.1	1.447	7.4				10.8		11.8				
4	6.7				14.1	1.692	7.1				10.3	< 20	13.8				
5	6.8				14.6	1.459	7.6				10.0		14.3				
6	6.9			14.6	13.8	1.516	7.6			0.02	10.2		14.4				
7	7.0				14.1	1.501	7.6				10.4		13.9				
8	6.8	285	408		12.8	1.521	7.2	3.0	3.0		10.5		12.6	98.9	99.3		
9	7.0				12.3	1.553	7.4				10.8		11.0				
10	7.2				14.4	1.601	7.5				10.5		12.9				
11	7.0				14.3	1.667	7.5				10.3	< 20	13.9				
12	7.1				14.4	1.823	7.3				10.0		14.8				
13	7.0			16.1	16	1.585	7.7			0.03	9.5		16.6				
14	7.4				13.9	1.970	7.8				10.4		14.3				
15	7.0	188	266		14.5	1.673	7.4	2.3	2.3		10.2		14.9	98.8	99.1		
16	7.0				13.3	1.502	7.4				10.5		13.2				
17	7.1				13.9	1.622	7.4				10.4		13.3				
18	7.0				13.2	1.562	7.4				10.6	< 20	12.7				
19	7.0				13.3	1.432	7.5				10.8		12.7				
20	7.5			13.4	13.3	1.524	7.8			0.02	10.4		13.3				
21	7.0				15.2	1.525	7.2				10.2		14.2				
22	7.2	210	230		17.6	1.856	7.6	2.2	1.6		9.7		16.6	99.0	99.3		
23	7.0				19.2	1.565	7.4				9.7		17.9				
24	7.4				16.9	1.688	7.9				9.5		17.5				
25	7.1				15.8	1.903	7.5				9.7		16.5				
26	7.1				15.0	1.523	7.5				10.0	< 20	15.4				
27	6.9			17.2	15.7	1.508	7.3			0.02	10.1		15.5				
28	6.9				15.5	1.481	7.3				9.9		16.2				
29	6.9	400	636		16.0	1.844	7.3	2.2	2.4		9.8		16.1	99.5	99.6		
30	7.0				15.8	1.978	7.2				9.6		16.3				
Total						49.191											
Avg		260	379	15.3	14.5	1.640		2.6	2.5	0.02	10.2	10	14.3	98.9	99.3		
Min	6.7	188	230	13.4	11.5	1.432	7.1	2.2	1.6	0.02	9.5	< 20	11.0	98.4	99.1		
Max	7.5	400	636	17.2	19.2	1.978	7.9	3.5	3.2	0.03	10.9	< 20	17.9	99.5	99.6		

MONTHLY EFF MONITORING				QUARTERLY EFF MONITORING				MONTHLY INF MONITORING		
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium mg/L	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L
1										
2										
3										
4										
5										
6	2.9	1.7	12.9	< 4.8	< 5.0	< 1.0	293	4.7	44.7	< 0.10
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	2.9	1.7	12.9	< 4.8	< 5.0	< 1.0	293	4.7	44.7	< 0.10
Avg	2.9	1.7	12.9	< 4.8	< 5.0	< 1.0	293	4.7	44.7	< 0.10
Min	2.9	1.7	12.9	< 4.8	< 5.0	< 1.0	293	4.7	44.7	< 0.10
Max	2.9	1.7	12.9	< 4.8	< 5.0	< 1.0	293	4.7	44.7	< 0.10

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR "ACTIVATED SLUDGE" PROCESSES

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				* Ambient Temp ° F	*RAIN inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		1.6	7,140	880	11.4	4.0	5,450	750	11.5	30	0	7:30
2		3.5	6,820	870	12.0	5.8	4,510	660	11.9	50	0	7:30
3		2.4	7,010	900	11.9	3.7	6,110	840	11.8	38	0	7:30
4		0.7	7,300	910	13.8	2.0	5,410	760	13.6	53	0	7:30
5		1.3	7,050	880	14.6	1.5	6,180	800	14.5	55	0	7:30
6		0.7	6,840	870	14.1	0.9	6,660	860	14.2	48	0.50	7:30
7	13,211	1.4	6,390	830	14.4	1.3	7,130	910	14.2	45	0	7:30
8	3,873	2.0	6,380	880	12.2	1.4	6,170	910	12.2	38	0	7:30
9	9,458	2.8	6,490	870	11.1	2.6	6,520	870	11.2	32	0	7:30
10	6,755	2.6	6,410	890	13.9	2.1	6,650	860	13.6	51	0	7:30
11		1.2	6,380	840	14.5	1.0	5,770	810	14.3	55	1.00	7:30
12		0.8	7,220	870	14.9	1.0	6,290	850	14.8	56	0.25	7:30
13		0.8	7,050	870	17.0	0.9	6,180	810	16.8	66	0.25	7:30
14		0.9	7,110	870	14.2	1.4	7,150	870	14.2	37	0.50	7:30
15		2.0	7,790	880	14.1	3.8	6,220	760	14.1	45	0	7:30
16		1.7	8,010	930	13.2	1.8	5,910	850	13.2	44	0	7:30
17		1.5	7,900	900	13.4	4.4	5,070	870	13.3	46	0.20	7:30
18		0.9	7,620	930	12.7	2.1	5,500	830	12.7	42	0.30	7:30
19		1.1	6,910	900	13.0	3.0	6,330	890	13.0	43	0	7:30
20		0.7	7,130	890	13.3	1.6	6,510	830	13.1	48	0.50	7:30
21		1.1	6,320	850	14.5	1.0	7,010	890	14.3	50	0.20	7:30
22		0.7	5,790	720	17.1	1.6	5,510	620	16.8	67	0	7:30
23		0.6	8,070	900	16.7	1.6	4,930	660	18.3	71	0	7:30
24		0.6	7,060	850	17.9	0.5	5,800	820	17.1	63	0	7:30
25		0.7	5,980	850	16.9	0.7	6,310	850	16.7	50	0.75	7:30
26	10,328	1.2	6,120	820	15.4	1.3	6,670	850	15.7	42	0	7:30
27	11,890	1.3	6,680	880	15.4	1.6	6,500	860	15.3	45	0	7:30
28	6,605	1.2	7,170	880	16.2	1.4	5,920	840	16.2	60	0	7:30
29		0.9	6,760	870	16.1	0.8	5,350	850	16.2	59	0.80	7:30
30		0.6	7,160	880	16.4	1.1	5,690	760	16.5	60	1.00	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	5/5/2022
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	5/5/2022

*Required Daily (Monday - Friday)

**Required 1/week

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	001M
Monitoring Period	
4/1/22	4/30/22
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	1.978	1.640	Mgal/d
Mon. Location.: End of Pipe	*****	*****	*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
Sample Type: Total Measured							
Frequency: Daily							
BOD, 5-day, 20 deg. C	*****	3.5	2.6	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****	Weekly Avg.:45	Monthly Avg.:30		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Total Suspended Solids (TSS)	*****	3.2	2.5	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****	Weekly Avg.:45	Monthly Avg.:30		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Escherichia coli (E. coli)	*****	<20	10.0	#/100mL	*****	*****	*****
Mon. Location.: End of Pipe	*****	7 Day Geo.:630	30 Day Geo. Mean:126		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
Phosphorus, total (as P)	2.9	*****	2.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, Kjeldahl, total (as N)	1.7	*****	1.7	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrite plus nitrate total (as N)	12.9	*****	12.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, ammonia total (as	0.03	*****	0.02	mg/L	*****	*****	*****

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Jefferson City, MO, 65102

N)							
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
pH	7.1	*****	7.9	SU	*****	*****	*****
Mon. Location.: End of Pipe	Minimum:6.0	*****	Maximum:9.0		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	*****	*****	98.4	%	*****	*****	*****
Mon. Location.: End of Pipe	*****	*****	Monthly Avg. Min.:85		*****	*****	
Sample Type: Calculated							
Frequency: Monthly							
Suspended Solids, percent removal	*****	*****	99.1	%	*****	*****	*****
Mon. Location.: End of Pipe	*****	*****	Monthly Avg. Min.:85		*****	*****	
Sample Type: Calculated							
Frequency: Monthly							
Comments:							

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Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
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Central Field Operations
P O Box 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	INFIM
Monitoring Period	
4/1/22	4/30/22
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
BOD, 5-day, 20 deg. C	*****	*****	250	mg/L	*****	*****	*****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Total Suspended Solids (TSS)	*****	*****	379	mg/L	*****	*****	*****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, ammonia total (as N)	17.2	*****	15.3	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Phosphorus, total (as P)	4.7	*****	4.7	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, Kjeldahl, total (as N)	44.7	*****	44.7	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrite plus nitrate total (as N)	<0.10	*****	<0.10	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								

Comments:

Lake of the Ozarks Regional
WWTP 1
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LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature Gary Hutchcraft	Submission Date May 5, 2022	User Phone Number (573)365-0455
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Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	001Q
Monitoring Period	
4/1/22	6/30/22
NOD:	*****

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Lake of the Ozarks Regional
WWTP 1
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LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

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eSignature Gary Hutchcraft	Submission Date May 5, 2022	User Phone Number (573)365-0455
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FOR APRIL 2022

Use following abbreviations: N=rain, N=none, C=overcast, C=clear, PC=partly cloudy

Approved by GH

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Bids for Spare UV Bulbs, Sleeves, Air Cylinders & Miscellaneous parts/brushes

Bidder	Budget	Price each	Purchase Amount & Total
John Henry Foster	\$10,000.00	Parker Origa Cylinder OSP	2 - \$1,988.44
			Total - \$1,988.44
Vandevanter Eng.	"	Parker Origa Cylinder OSP	2 - \$4,148.00
		Misc. parts/brushes	\$720.00
		UV Bulbs - \$169.00 ea.	30 - \$5,070.00
		Quartz Sleeves - \$189.00 ea	20 - \$3,780.00
Xylem Inc. (Wedeco)	"	Parker Origa Cylinder OSP	2 - \$4,148.00
		Misc. parts/brushes	\$720.00
		UV Bulbs - \$169.00 ea.	30 - \$5,070.00
		Quartz Sleeves - \$189.00 ea	20 - \$3,780.00
			Total - \$720.00
USA Bluebook	"	Parker Origa Cylinder OSP	No Bid
		Misc. parts/brushes	No Bid
		UV Bulbs - \$144.85 ea.	30 - \$4,345.50
		Quartz Sleeves - \$177.25 ea	20 - \$3,545.00
UV Doctor	"	Parker Origa Cylinder OSP	No Bid
		Misc. parts/brushes	No Bid
		UV Bulbs - \$115.00 ea	30 - \$3,450.00
		Quartz Sleeves - \$135.00 ea	20 - \$2,700.00
			Total - \$6,150.00
Total from JHF, Xylem & UV Doctor			\$8,868.44

Freight is not included

Total Phosphorous

Phosphorous from wastewater can foster the growth of blue-green algae which can be toxic to humans and animals. Excessive algae can have cascading impacts on the ecosystem as well. According to MO-DNR, POTW average statewide TP effluent is 5mg/L. MO-DNR is pushing for an effluent limit of 1mg/L. This proposed change would affect 141 Missouri treatment plants. For larger facilities, meeting this requirement, might be accomplished with small dollars. However, for smaller communities, some might see big capital costs.

ARPA Grant Funds

MDNR anticipates they may receive \$300 million or more for water/sewer/stormwater projects from Missouri's share of recovery act funding. Approved projects must be able to draw down initial funding by 12/31/24 and funds fully spent by 12/31/26; dates could be extended by Congress. Local matching funds may be required.

NPDES Permit Compliance Schedule

If a new or more stringent wastewater permit limit/condition is to be required at a future date, wastewater treatment facility owners can pursue extended compliance schedules as part of their permit renewal processes. Compliance schedules can often exceed 5-year permit terms.